

28578US2_ST25
SEQUENCE LISTING

<110> Fong, Timothy C
Alexis, Te

<120> Cytomodulating Peptides for Treating Interstitial Cystitis

<130> 46583-105145

<140> US 10/535167
<141> 2005-05-16

<150> PCT/US03/37043
<151> 2003-11-17

<150> 60/426,648
<151> 2002-11-15

<150> 60/470839
<151> 2003-05-15

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<170> PatentIn version 3.5

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<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa = any basic amino acid, preferably lys or arg

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<222> (2)..(4)
<223> Xaa = an aliphatic or aromatic amino acid, e.g., a non-polar
aliphatic amino acid, preferably of from 5 to 6 carbons

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<222> (5)..(5)
<223> Xaa = any basic amino acid, preferably lys or arg

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<222> (6)..(8)
<223> Xaa = an aliphatic or aromatic amino acid, e.g., a non-polar
aliphatic amino acid, preferably of from 5 to 6 carbons

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<222> (9)..(9)
<223> Xaa = gly or any basic amino acid or an aliphatic hydrophobic
amino acid of from 5-6 carbon atoms

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28578US2_ST25

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr
1 5 10

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<222> (2)..(2)
<223> Xaa = an uncharged aliphatic or aromatic amino acid, preferably a non-polar aliphatic or aromatic amino acid

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<222> (3)..(4)
<223> Xaa = an aliphatic or aromatic amino acid, e.g., a non-polar aliphatic amino acid, preferably of from 5 to 6 carbons

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<223> Xaa = an aliphatic or aromatic amino acid, e.g., a non-polar aliphatic amino acid, preferably of from 5 to 6 carbons

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<222> (9)..(9)
<223> Xaa = gly, or any basic amino acid, or an aliphatic hydrophobic amino acid of from 5-6 carbon atoms

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Arg Leu Leu Leu Arg Leu Leu Leu Gly Tyr
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Arg Ile Leu Leu Arg Leu Leu Leu Gly Tyr
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Arg Leu Val Leu Arg Leu Leu Leu Gly Tyr
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Arg Leu Leu Leu Arg Leu Val Leu Gly Tyr
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Arg Leu Leu Leu Arg Leu Leu Val Gly Tyr
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Arg Leu Leu Leu Arg Leu Leu Ile Gly Tyr
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Arg Trp Leu Leu Arg Leu Leu Leu Gly Tyr
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Arg Leu Trp Leu Arg Leu Leu Leu Gly Tyr
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28578US2_ST25

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Arg Leu Leu Trp Arg Leu Leu Leu Gly Tyr
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Arg Leu Leu Leu Arg Trp Leu Leu Gly Tyr
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Arg Leu Leu Leu Arg Leu Trp Leu Gly Tyr
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Arg Leu Leu Leu Arg Leu Leu Trp Gly Tyr
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Arg Tyr Leu Leu Arg Leu Leu Leu Gly Tyr
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Arg Leu Tyr Leu Arg Leu Leu Leu Gly Tyr
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Arg Leu Leu Tyr Arg Leu Leu Leu Gly Tyr
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Arg Leu Leu Leu Arg Tyr Leu Leu Gly Tyr
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Arg Leu Leu Leu Arg Leu Tyr Leu Gly Tyr
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28578US2_ST25

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Arg Leu Leu Leu Arg Leu Leu Tyr Gly Tyr
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 <222> (2)..(4)
 <223> Xaa = norleucine

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 <222> (6)..(8)
 <223> Xaa = norleucine

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Arg Xaa Xaa Xaa Arg Xaa Xaa Xaa Gly Tyr
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Gly Ser Gly Gly Ser
 1 5

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Gly Gly Gly Ser

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<222> (1)..(5)

<223> Xaa = any amino acid

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<222> (7)..(9)

<223> Xaa = any amino acid, where one of amino acids 7 to 9 can be absent

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<222> (11)..(22)

<223> Xaa = any amino acid, where up to 8 of the amino acids 11 to 22 can be absent

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<222> (24)..(26)

<223> Xaa = any amino acid

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<222> (28)..(32)

<223> Xaa = any amino acid

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Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa
 20 25 30

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28578US2_ST25

<222> (7)..(26)

<223> xaa = any amino acid, where up to 17 amino acids 7 to 26 can be
absent

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Phe Gln Cys Glu Glu Cys xaa xaa xaa xaa xaa xaa xaa xaa xaa xaa
1 5 10 15

xaa xaa xaa xaa xaa xaa xaa xaa xaa xaa His Ile Arg Ser His Thr
20 25 30

Gly

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<222> (2)..(3)

<223> xaa = any amino acid

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<222> (5)..(24)

<223> xaa = any amino acid, where up to 16 amino acids 5 to 24 can be
absent

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<222> (26)..(29)

<223> xaa = any amino acid

<400> 33

Cys xaa xaa Cys xaa xaa xaa xaa xaa xaa xaa xaa xaa xaa xaa
1 5 10 15

xaa xaa xaa xaa xaa xaa xaa xaa His xaa xaa xaa xaa Cys
20 25 30

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 <222> (7)..(26)
 <223> Xaa = any amino acid, where up to 16 amino acids 7 to 26 can be absent

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Val Lys Cys Phe Asn Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Thr Ala Arg Asn Cys
 20 25 30

Arg

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 <222> (10)..(29)
 <223> Xaa = any amino acid, where up to 16 amino acids 10 to 29 can be absent

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 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Lys Ala
 20 25 30

Cys Phe

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His His His His His His
 1 5

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Gly Gly Gly Gly
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Gly Gly Gly Gly Gly
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Gly Gly Gly Gly Gly Gly
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Gly Gly Gly Gly Gly Gly Gly
1 5